F-1000

Digital Paddlewheel Flow Meter

Features

> High accuracy digital paddlewheel technology
> Flow Rate Only, Totalization Only, or Flow Rate & Totalization Models
> 3/8”, 1/2”, 3/4”, 1”, 1-1/2”, and 2” molded inline tee models
> Up to 12” pipe size with saddle mount units
> Tamper proof factory programming
> Easy to read 6 digit LCD display, up to 4 decimal places
> Very low pressure drop
> Totalization resettable function which can be disabled

Video link:

NEMA 4X

Highlights

Flow range
.4 - 8,000 GPM
1 - 27,000 LPM

Pressures
up to 300 PSI
(20.7 bar)

Pressure drop
0 - 8 PSI
(varies per model)

Full Scale Accuracy
+/- 2%

Power supply
Battery operated

Warranty
1 Year

Available Models

Molded Fittings

Saddle Mount Fittings

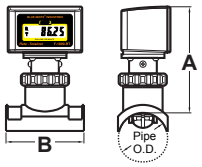
PVC Fittings

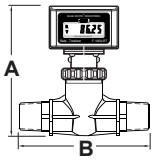
For more help and information regarding **F-1000**, please visit www.blue-white.com or scan this QR code.

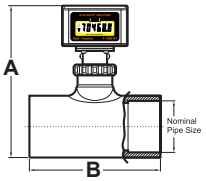
Engineering Specifications

Maximum Working Pressure	300 PSI (20.7 bar) @ 70 °F (21 °C) (refer to temp/pressure graph)
Maximum Fluid Temperature	200 °F (93.3 °C) @ 0 PSI (Polypropylene Tees and PVDF saddles)
	140 °F (60 °C) @ 0 PSI (all PVC saddles and PVC Tee fittings)
	NOTE: Temperature rating of F-1000 only. Actual pipe rating may vary.
Maximum Ambient Temperature	14 °F to 110 °F/ -10 °C to 43 °C
Maximum Pressure Drop	up to 8 PSI (polypropylene tees) no pressure drop on saddle models
Full scale Accuracy	+/- 2%
Power Requirement	2 AAA batteries (included)
Approximate Shipping Weight	2 lb. (.91 kg)
Enclosure	NEMA 4X (IP56)
RoHS Compliant	Yes
BABAA Compliant	Yes

Dimensions







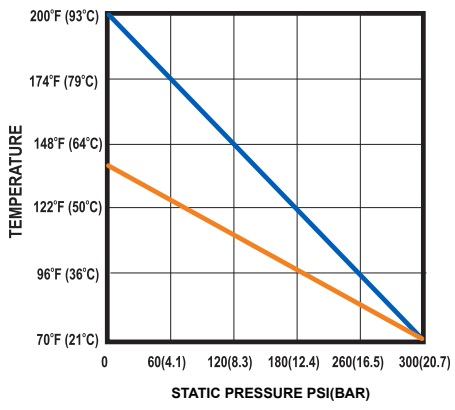
Saddle Fittings		
Pipe Size	**A**	**B**
1.5”(50mm)	4-5/16”	3-3/16”
2”(63mm)	4-5/16”	3-3/16”
2.5”(75mm)	4-5/16”	3-3/16”
3”(90mm)	4-5/16”	3-3/16”
4”(110mm)	4-5/16”	3-3/16”
6”(160mm)	4-1/4”	3-3/16”
8”(200mm)	4-1/4”	3-3/16”
10”(250mm)	4-1/4”	4-1/2”
12”(315mm)	4-1/4”	4-1/2”

Molded Fittings		
Pipe Size	**A**	**B**
3/8”	5-3/8”	4-3/4”
1/2”	5-3/8”	5-1/8”
3/4”	5-5/8”	5-1/4”
1”	5-5/8”	5-5/8”
1-1/2”	6-1/8”	6-1/2”
2”	6-3/8”	6-3/4”

PVC Tee		
Model	**A**	**B**
RB-100	4”	6”
RB-150	4-1/2”	6-5/8”
RB-200	4-3/4”	7-1/8”

Performance

Maximum Temperature vs. Pressure



Materials of Construction

Saddle material:	PVDF (1-1/2”, 2”, 3”, 50mm, 63mm, 90mm sizes)
	PVC (all other sizes)
Molded In-Line Body:	Polypropylene
Sensor, paddlewheel, axle:	PVDF
Sensor O-ring seals:	FKM (optional EP)
Enclosure:	ABS

Ordering Information

Molded In-Line Pipe Fittings

Pipe Size M/NPT	GPM Flow Range	LPM Flow Range	M^3/HR Flow Range	Fitting Number MNPT (MI)	Fitting Number MBSPT (MB)	Flow Range
3/8"	.8 to 8	3 - 30	0.2 - 1.8	38M**1**	38MB**1**	**1**
3/8”	.4 to 4	1 - 10	0.1 - 0.6	38M**2**	38MB**2**	**2**
1/2"	2 to 20	7 - 70	0.4 - 4.2	50M**1**	50MB**1**	**1**
3/4"	3 -30	11 - 110	0.7 - 6.6	75M**1**	75MB**1**	**1**
1"	5 to 50	20 - 200	1.2 - 12	10M**1**	10MB**1**	**1**
1-1/2"	6 to 60	25 - 250	1.5 - 15	15M**2**	15MB**2**	**2**
2”	10 to 100	40 - 400	2.4 - 24	20M**3**	20MB**3**	**3**
2”	20 to 200	70 - 700	4.2 - 42	20M**4**	20MB**4**	**4**

TEE Pipe Fittings (PVC)

Pipe Size	GPM Range	LPM Range	Fitting Number Solvent Weld PVC Tee (AT)
1"	6 to 60	25 - 250	10AT
1-1/2"	15 to 150	60 - 600	15AT
2" *	30 to 300	100 - 1000	20AT
3" *	60 to 600	230 - 2300	30AT

Saddle Mount Pipe Fittings

Pipe Size IPS	GPM Range	M^3/HR Flow Range	Material	Fitting Number Sch 40 (S4)	Fitting Number Sch 80 (S8)
1-1/2"	15 to 150	3.5 - 34.5	PVDF	15K4	15K8
2"	30 to 300	6.9 - 69.0	PVDF	20K4	20K8
2-1/2"	40 to 400	9.2 - 92.0	PVC	25A4	25A8
3" *	60 to 600	13.8 - 138	PVDF	30K4	30K8
4" *	100 to 1000	23.0 - 230	PVC	40A4	40A8
6" *	250 to 2500	57.5 - 575	PVC	60A4	60A8
8" *	400 to 4000	92.0 - 920	PVC	80A4	80A8
10" *	600 to 6000	138 - 1380	PVC	100A4	100A8
12" *	800 to 8000	184 - 1840	PVC	120A4	120A8

DIN 8062	LPM	M^3/HR Flow Range	Material	Metric PN10 (P0)	Metric PN16 (P6)
50mm	70 to 700	4.2 - 42.0	PVDF	05K0	05K6
63mm *	110 to 1100	6.6 - 66.0	PVDF	06K0	06K6
75mm *	150 to 1500	9.0 - 90.0	PVC	08A0	08A6
90mm *	230 to 2300	13.8 - 138	PVDF	09K0	09K6
110mm *	350 to 3500	21.0 - 210	PVC	11A0	11A6
160mm *	720 to 7200	43.2 - 432	PVC	16A0	16A6
200mm *	1150 to 11500	69.0 - 690	PVC	20A0	20A6
250mm *	1700 to 17000	102 - 1020	PVC	25A0	
315mm *	2700 to 27000		PVC	31A0	

* Not available in GPD (gallons per day) or LPD (liters per day)

F-1000 Model Number Matrix

RB	-	375	MI	-	GPM	1	-			Sample Model Number

Variations

RB = Rate Only
TB = Total Only
RT = Rate and Total

Pipe Fitting

Blank = Standard
P = No pipe fitting

Pipe Sizes M/NPT

Imperial Pipe Sizes	Metric Pipe Sizes
375 = 3/8" IPS	**050** = 50 mm
500 = 1/2" IPS	**063** = 63 mm
750 = 3/4" IPS	**075** = 75 mm
100 = 1" IPS	**090** = 90 mm
150 = 1-1/2" IPS	**110** = 110 mm
200 = 2" IPS	**160** = 160 mm
250 = 2-1/2" IPS	**200** = 200 mm
300 = 3" IPS	**250** = 250 mm
400 = 4" IPS	**315** = 315 mm
600 = 6" IPS	
800 = 8" IPS	
1000 = 10" IPS	
1200 = 12" IPS	

O-rings / Elastomers

Blank = Standard (FKM)
E = EPDM O-rings

Calibration Range (see pipe fitting detail)

1 = Range 1	**3** = Range 3
2 = Range 2	**4** = Range 4

Molded In-line fittings - Use last number of fitting #.

All other fittings - Use Range 1

Calibration Units

GPM = U.S. Gallons per minute
GPH = U.S. Gallons per hour
GPD = U.S. Gallons per day
OZM = U.S. Ounces per minute
CFM = Cubic Feet per minute
AFD = Acre Feet per day
LPM = Liters per minute
LPH = Liters per hour
LPD = Liters per day
M3H = Cubic Meters per hour
IGM = Imperial Gallons per minute
IGH = Imperial Gallons per hour

Pipe Fitting Type (Ensure chosen pipe size is available for the fitting type)

S4 = SADDLE, SCH40 (I.P.S.) PVC or IRON pipe	**MI** = INLINE INJECTION MOLDED PP AMERICAN M/NPT
1-1/2", 2", 3" PVDF	3/8", 1/2", 3/4", 1" M/NPT, polypropylene
2-1/2", 4", 6", 8" PVC	1-1/2" M/NPT, polypropylene
10", 12" PVC	2" M/NPT, polypropylene
S8 = SADDLE, SCH80 (I.P.S.) PVC pipe	**MB** = INLINE INJECTION MOLDED PP BRITISH M/BSPT
1-1/2", 2", 3" PVDF	3/8", 1/2", 3/4", 1" M/BSPT, polypropylene
2-1/2", 4", 6", 8" PVC	1-1/2" M/BSPT, polypropylene
10", 12" PVC	2" M/BSPT, polypropylene
P0 = SADDLE, PN10 METRIC (DIN 8062) pipe	**AT** = INLINE INJECTION MOLDED TEE PVC SLIP/SOCKET
50 mm, 63 mm, 90 mm PVDF	1", 1-1/2", 2" PVC
75, 110, 160, 200 mm PVC	3" PVC
250, 315 mm PVC	
P6 = SADDLE, PN16 METRIC (DIN 8062) pipe	
50 mm, 63 mm, 90 mm PVDF	
75, 110, 160, 200 mm PVC	
250, 315 mm PVC	

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